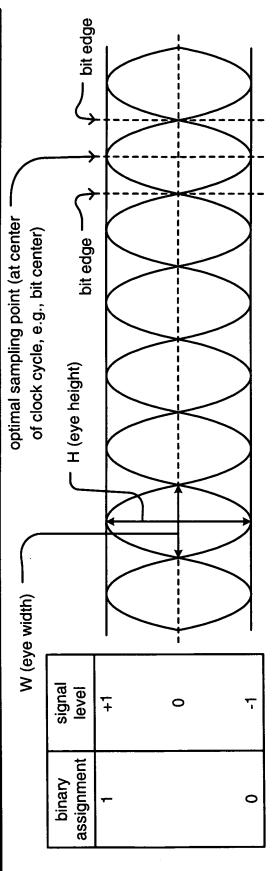
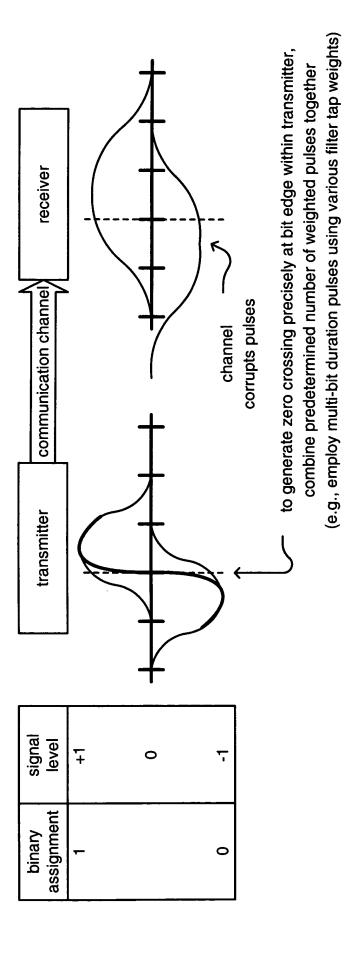


communication system (whose channel introduces undesirable ISI (Inter-Symbol Interference) to transmitted pulses) Fig. 1A (prior art)

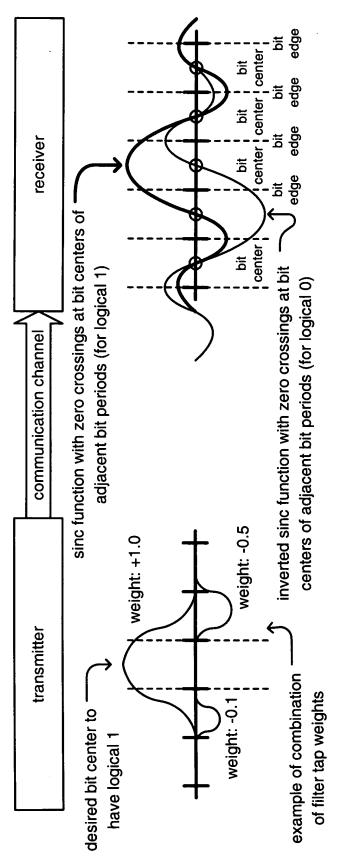


sequence of random data of an NRZ (Non-Return to Zero)/2 level signal Fig. 1B (prior art)

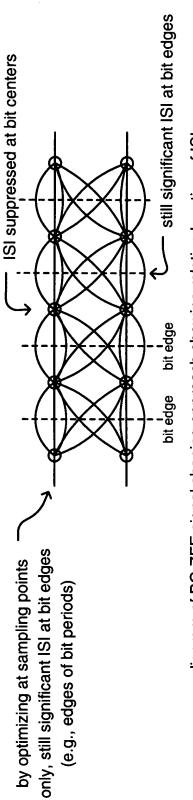


continuous time pulse response within a communication system

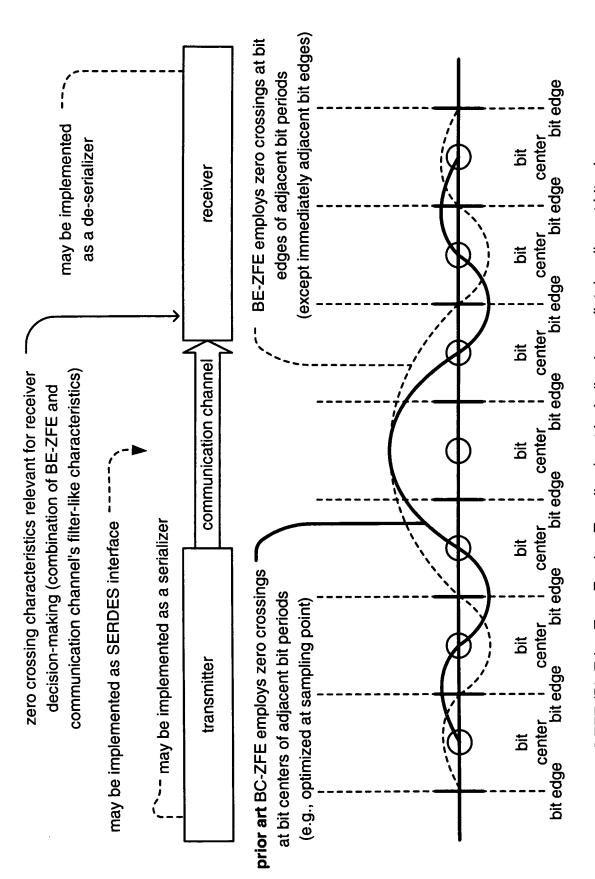
Fig. 2 (prior art)



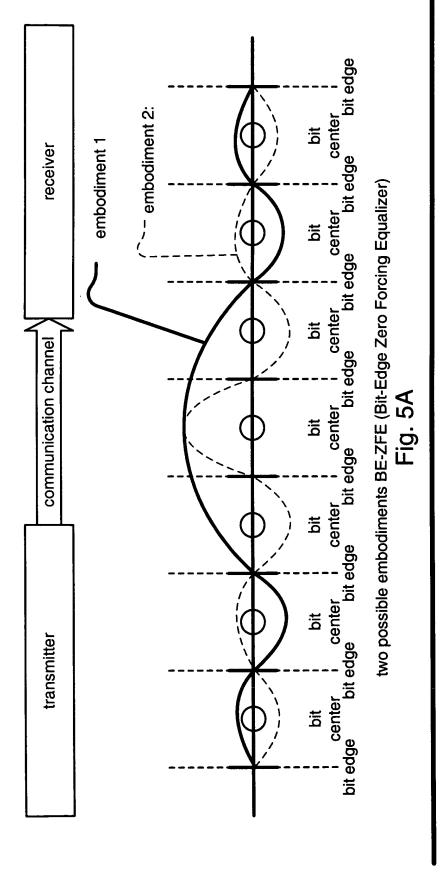
BC-ZFE (Bit-Center Zero Forcing Equalizer) signal shaping approach to send logical 1 Fig. 3A (prior art)

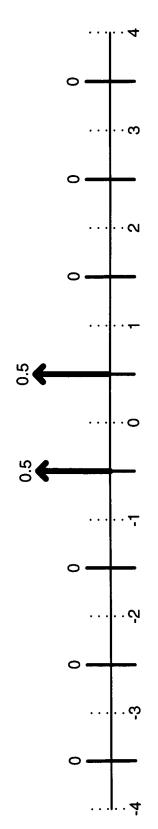


eye diagram of BC-ZFE signal shaping approach showing relative location of ISI Fig. 3B (prior art)

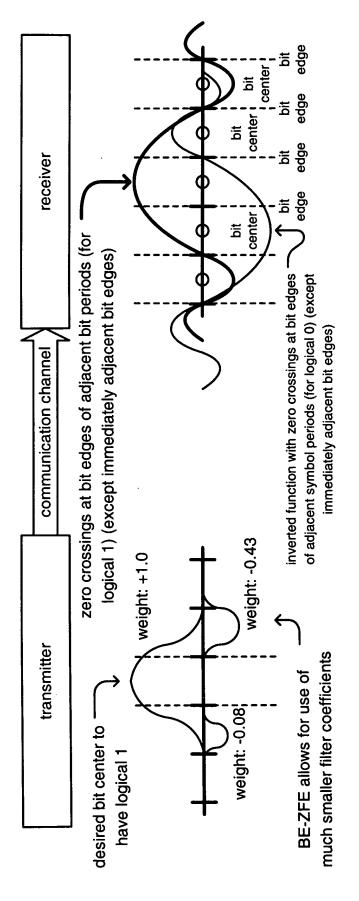


BE-ZFE (Bit-Edge Zero Forcing Equalizer) not including immediately adjacent bit edges

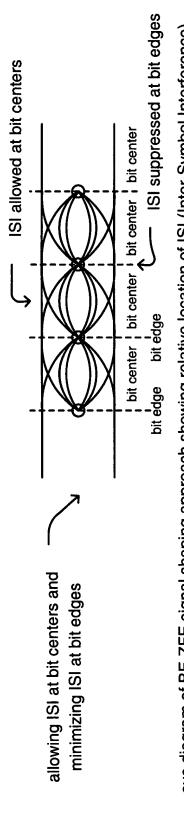




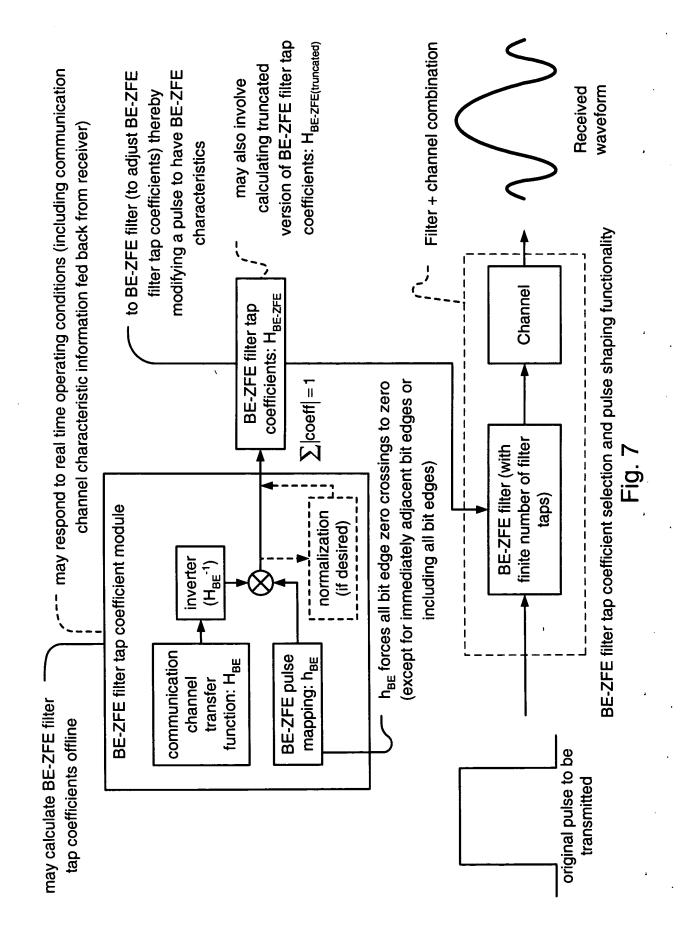
mapping of embodiment 1: BE-ZFE (takes pulse response values at bit edges and drives error to zero using mapping) Fig. 5B

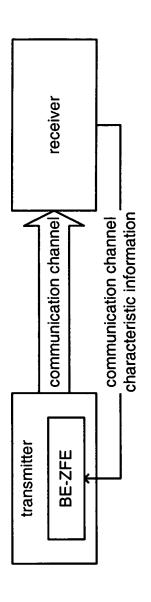


BE-ZFE (Bit-Edge Zero Forcing Equalizer) signal shaping approach to send logical 1 Fig. 6A

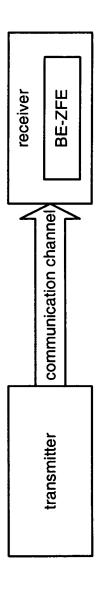


eye diagram of BE-ZFE signal shaping approach showing relative location of ISI (Inter-Symbol Interference) Fig. 6B



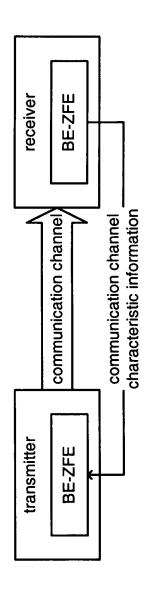


BE-ZFE implemented within transmitter of communication system Fig. 8A



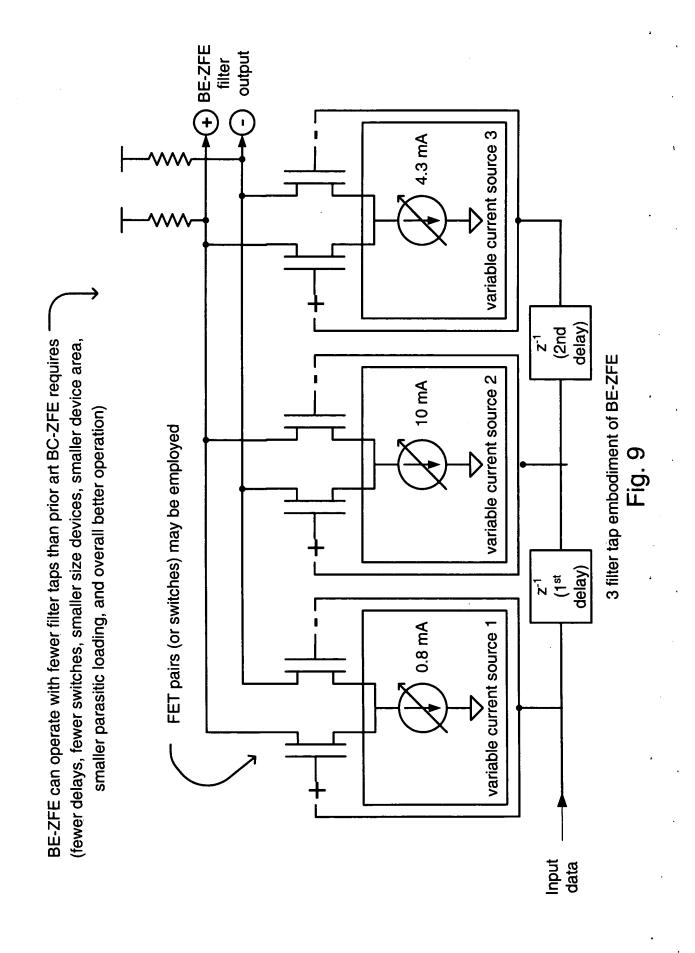
BE-ZFE implemented within receiver of communication system

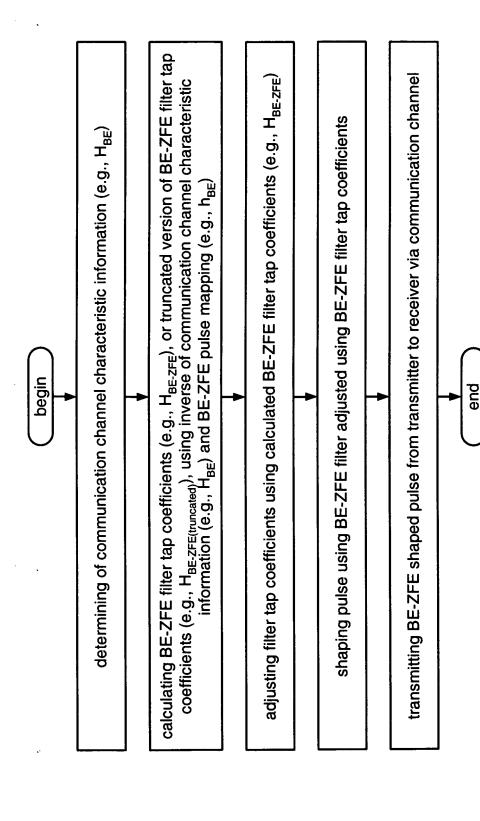
Fig. 8B



BE-ZFE implemented part in transmitter and part in receiver of communication system

Fig. 8C





method for performing equalization on a data signal according to Bit-Edge Zero Forcing Equalization